

FIGURE 1

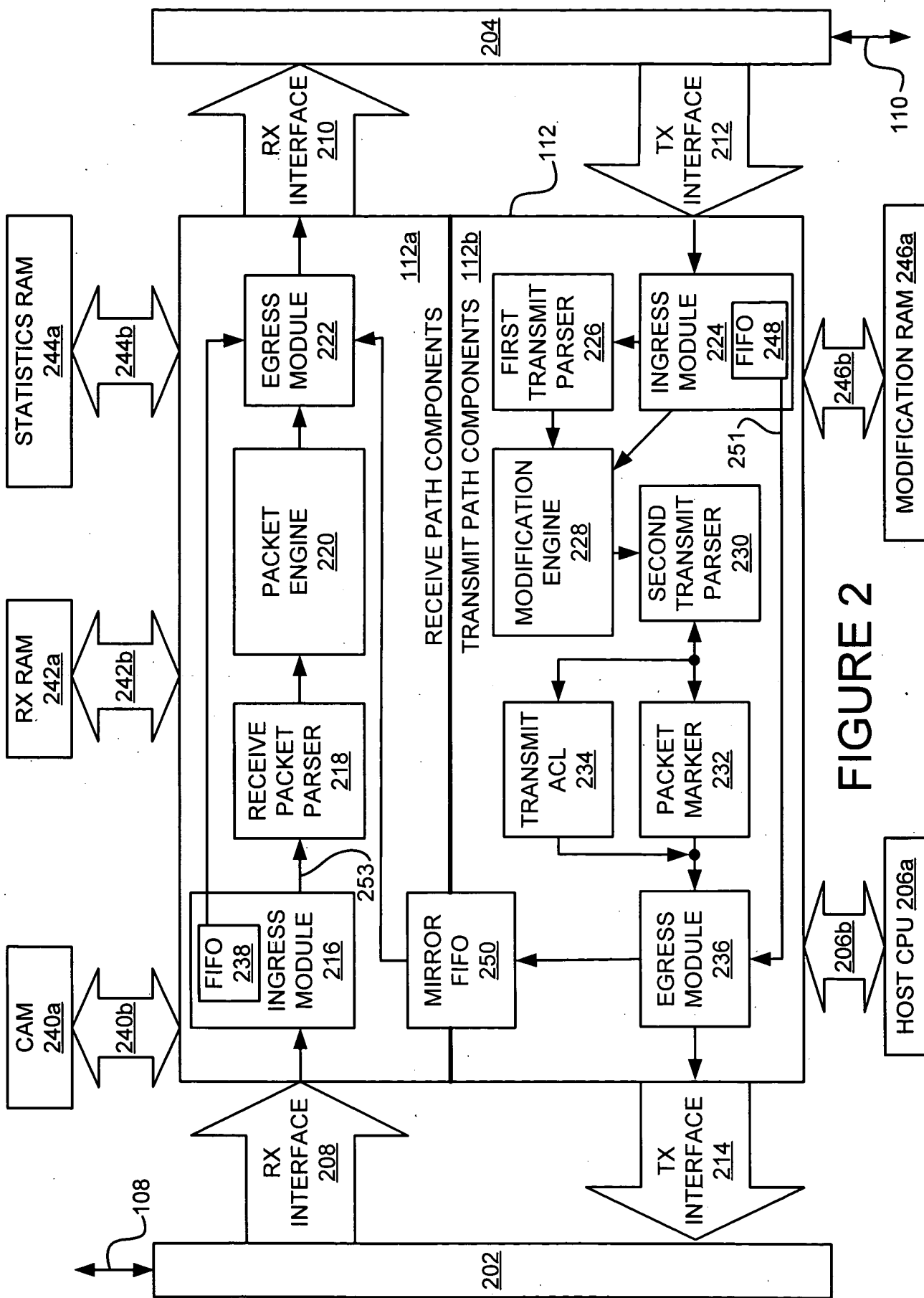
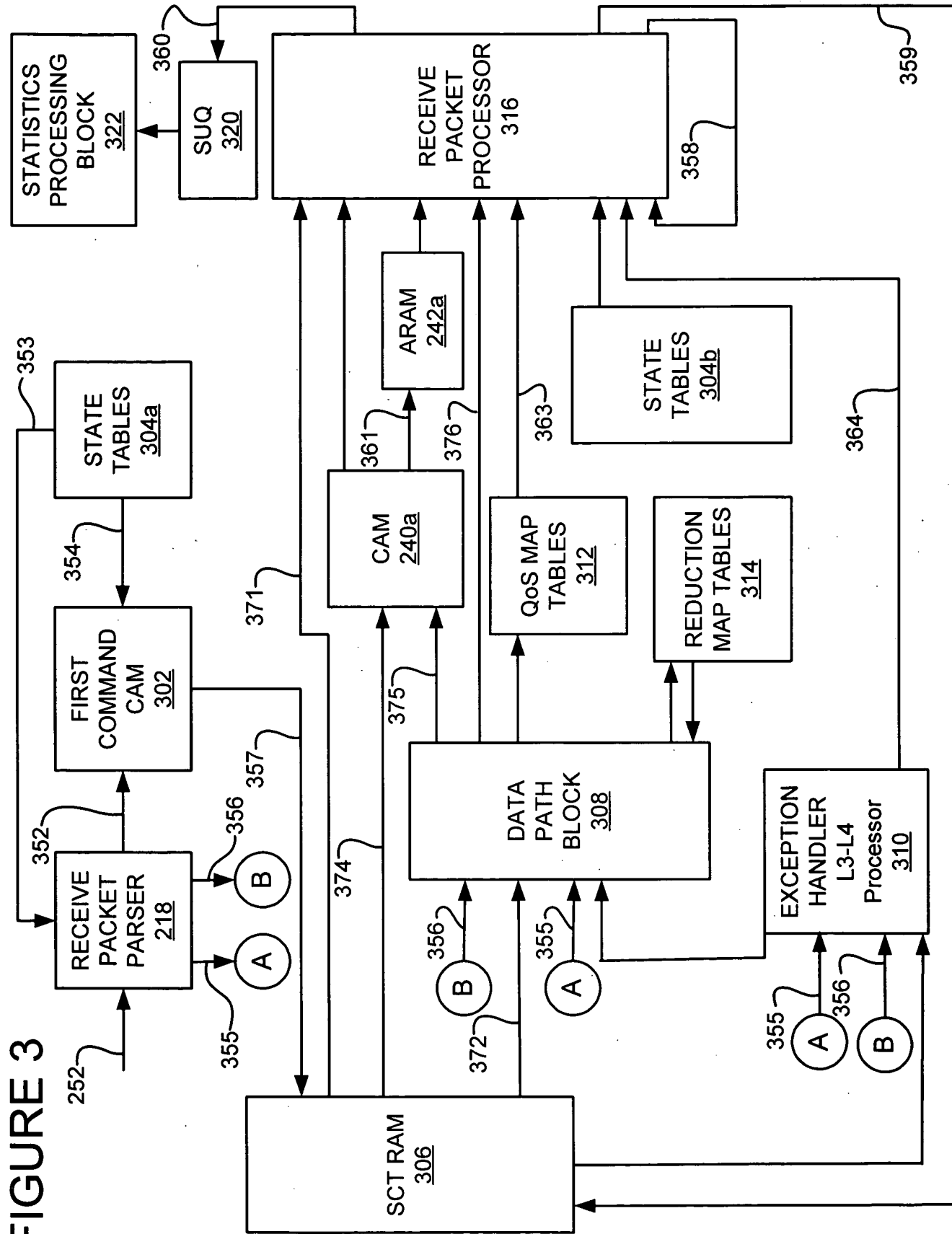


FIGURE 3

The diagram illustrates a network device architecture. Key components include:

- RECEIVE PACKET PARSER 218**: Receives input 252 and outputs 352 to the **FIRST COMMAND CAM 302**.
- FIRST COMMAND CAM 302**: Outputs 354 to **STATE TABLES 304a**.
- STATE TABLES 304a**: Outputs 353 to the **RECEIVE PACKET PARSER 218**.
- RECEIVE PACKET PARSER 218**: Also outputs 355 to **Circles A and B**.
- Circles A and B**: Output 356 to the **DATA PATH BLOCK 308**.
- DATA PATH BLOCK 308**: Receives input 372 from **Circles A and B** and outputs 375 to the **CAM 240a**.
- CAM 240a**: Outputs 361 to **ARAM 242a**.
- ARAM 242a**: Outputs 376 to the **RECEIVE PACKET PROCESSOR 316**.
- DATA PATH BLOCK 308**: Also outputs to **QoS MAP TABLES 312** and **REDUCTION MAP TABLES 314**.
- QoS MAP TABLES 312**: Outputs 363 to the **RECEIVE PACKET PROCESSOR 316**.
- REDUCTION MAP TABLES 314**: Outputs 364 to the **EXCEPTION HANDLER L3-L4 Processor 310**.
- EXCEPTION HANDLER L3-L4 Processor 310**: Receives input 355 from **Circles A and B** and outputs 356 to the **DATA PATH BLOCK 308**.
- DATA PATH BLOCK 308**: Outputs 374 to the **SCT RAM 306**.
- SCT RAM 306**: Outputs 371 to the **RECEIVE PACKET PROCESSOR 316**.
- RECEIVE PACKET PROCESSOR 316**: Receives input 360 from the **SUQ 320** and outputs 358 to the **STATE TABLES 304b**.
- STATE TABLES 304b**: Outputs 359 to the **RECEIVE PACKET PROCESSOR 316**.
- RECEIVE PACKET PROCESSOR 316**: Outputs 362 to the **STATISTICS PROCESSING BLOCK 322**.
- STATISTICS PROCESSING BLOCK 322**: Outputs 360 to the **SUQ 320**.
- SUQ 320**: Outputs 360 to the **RECEIVE PACKET PROCESSOR 316**.



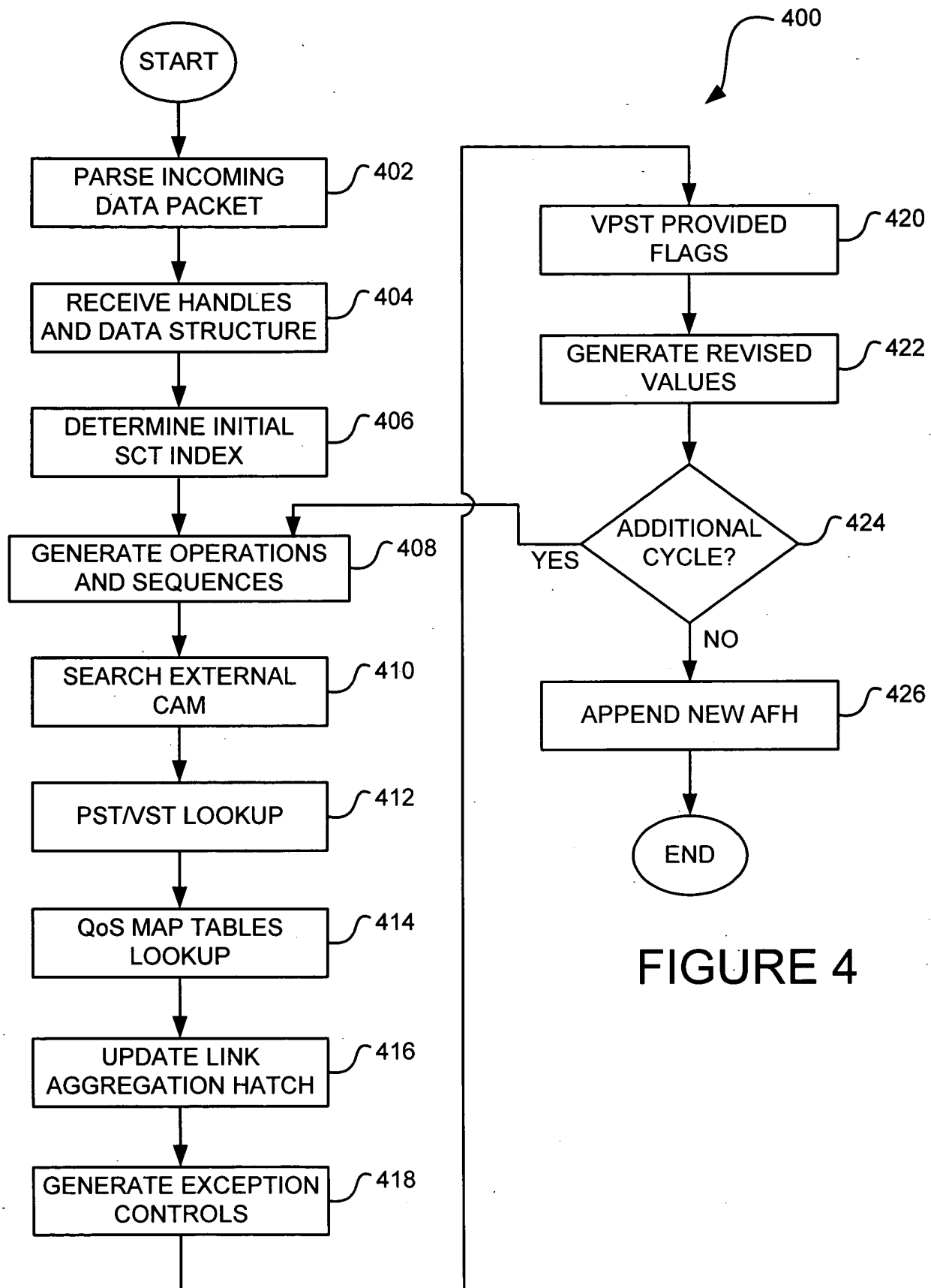


FIGURE 4

BIT	FUNCTION	DESCRIPTION
15-0	PTI	PORT TAG INDEX.
19-16	EQoS	EGRESS QUEUE SELECT.
23-20	LAI	LINK AGGREGATION INDEX.
24	JUMBO	EGRESS JUMBO CHECK FLAG. REQUESTS OT PERFORMS JUMBO CHECK ON EGRESS PORT.
25	DON'T FRAG	DON'T FRAGMENT FLAG.
26	IF TYPE	INGRESS INTERFACE TYPE. 0 = ETHERNET, 1 = POS INTERFACE.
27	-	RESERVED.
28	ROUTE	ROUTE FLAG. ESSENTIALLY DISABLES ECHO KILL IN DISTRIBUTOR 106.
29	RED	RANDOM EARLY DROP. PACKET MUST BE PROCESSED BY DISTRIBUTOR 106 FOR DROP PRECEDENCE.
31-30	CTL	AFH FORMAT TYPE. SET TO 0 FOR PACKET ADDRESSOR 112 FORMAT TYPE
51-32	TXMI	TRANSMIT MODIFICATION INDEX.
58-52	CQoS	CPU QUEUE SELECT.
59	CPU COPY	CPU COPY FLAG. REQUESTS OT TO SEND A COPY OF THE PACKET TO THE CPU.
60	REDIRECT	REDIRECT FLAG. REQUESTS OT TO SEND A COPY OF THE PACKET TO THE CPU FOR REDIRECT PROCESSING.
61	SSAMPLE	STATISTICAL SAMPLE FLAG. INDICATES TO THE OT THAT PACKET IS A CANDIDATE FOR STATISTICAL SAMPLING AND MUST BE PLACED ON THE MULTICAST QUEUE.
62	LEARN	LEARN FLAG. REQUESTS OT TO SEND A COPY OF THE PACKET TO THE CPU FOR LEARN PROCESSING.
63	EMIRROR	EGRESS MIRROR. REQUESTS OT TO SEND A COPY OF THE PACKET TO THE EGRESS MIRROR PORT.
75-64	IQoS	INGRESS QUEUE SELECT.
78-76	EMRK SEL	EGRESS MARK SELECT. SELECTS ONE OF 8 EGRESS MARK OPERATIONS.
81-79	EMRK MASK	EGRESS MARK MASK. SELECTS ONE OF 8 EGRESS MARK MASKS.
82	IMIRROR	INGRESS MIRROR. REQUESTS OT TO SEND A COPY OF THE PACKET TO THE INGRESS MIRROR PORT.
83	PERR KILL	PARITY ERROR KILL. REQUESTS RX EGRESS PBUS INTERFACE TO KILL THE PACKET DUE TO THE DETECTION OF AN ARAM PARITY ERROR.

FIGURE 5

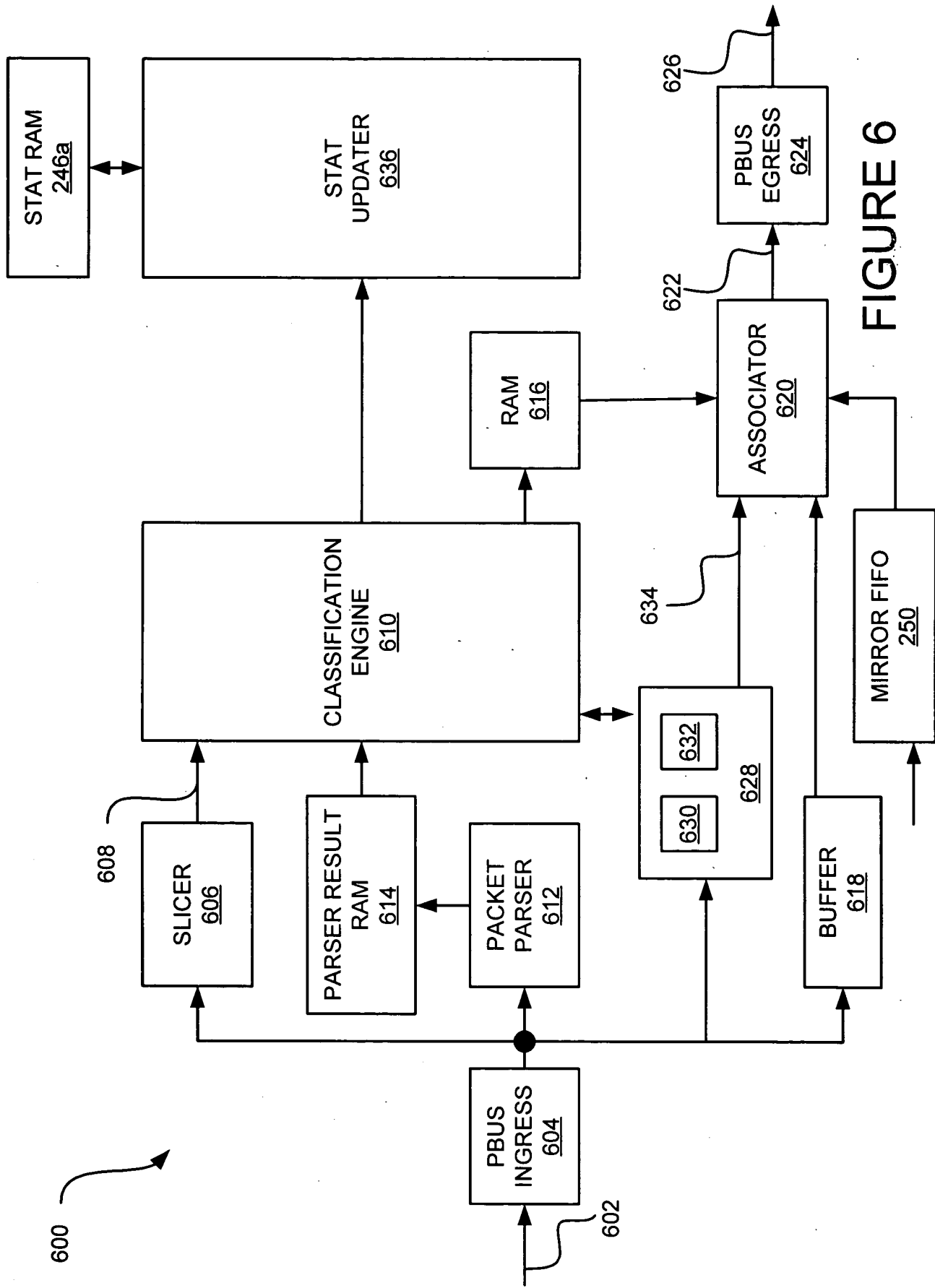
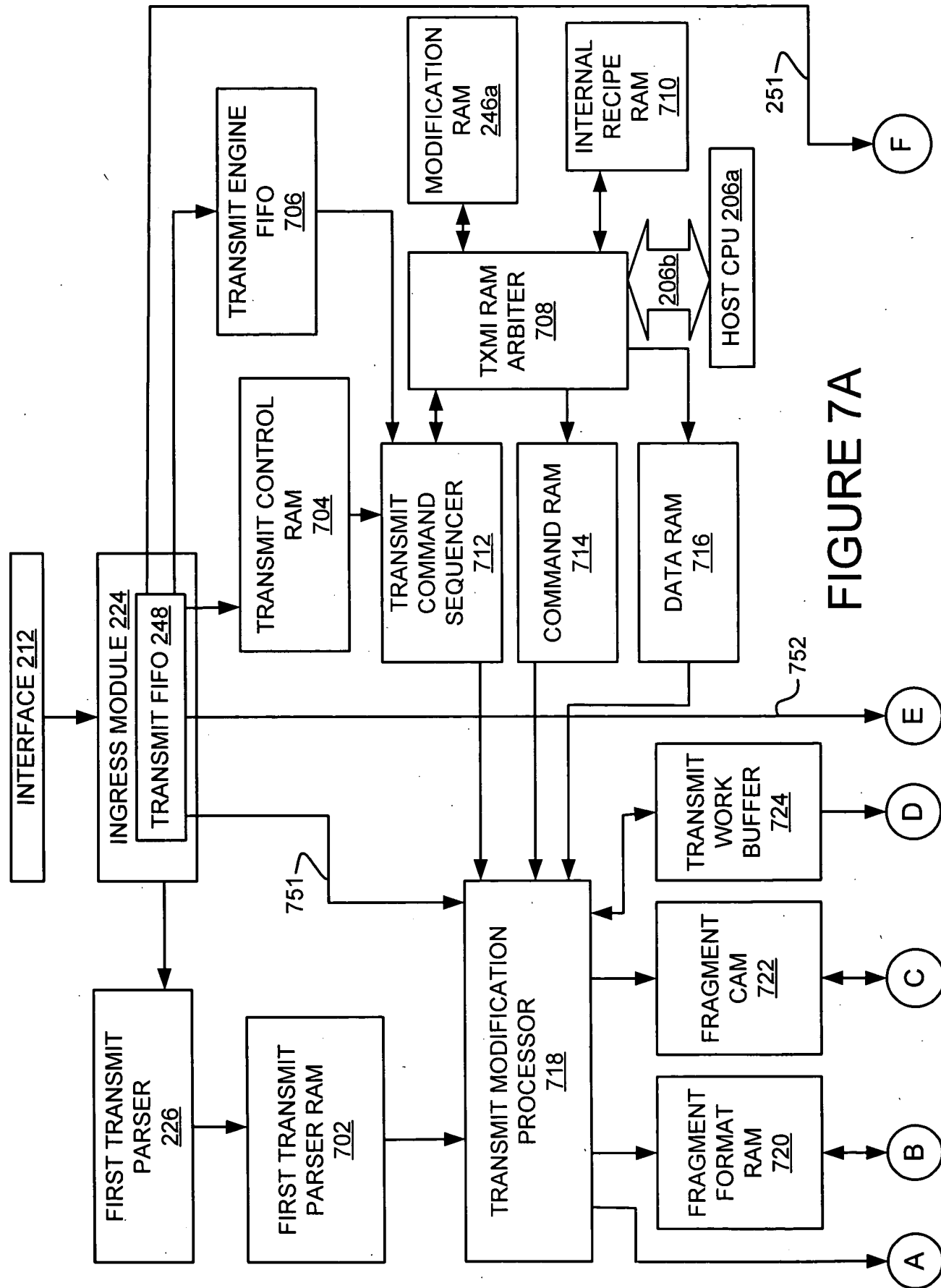


FIGURE 6



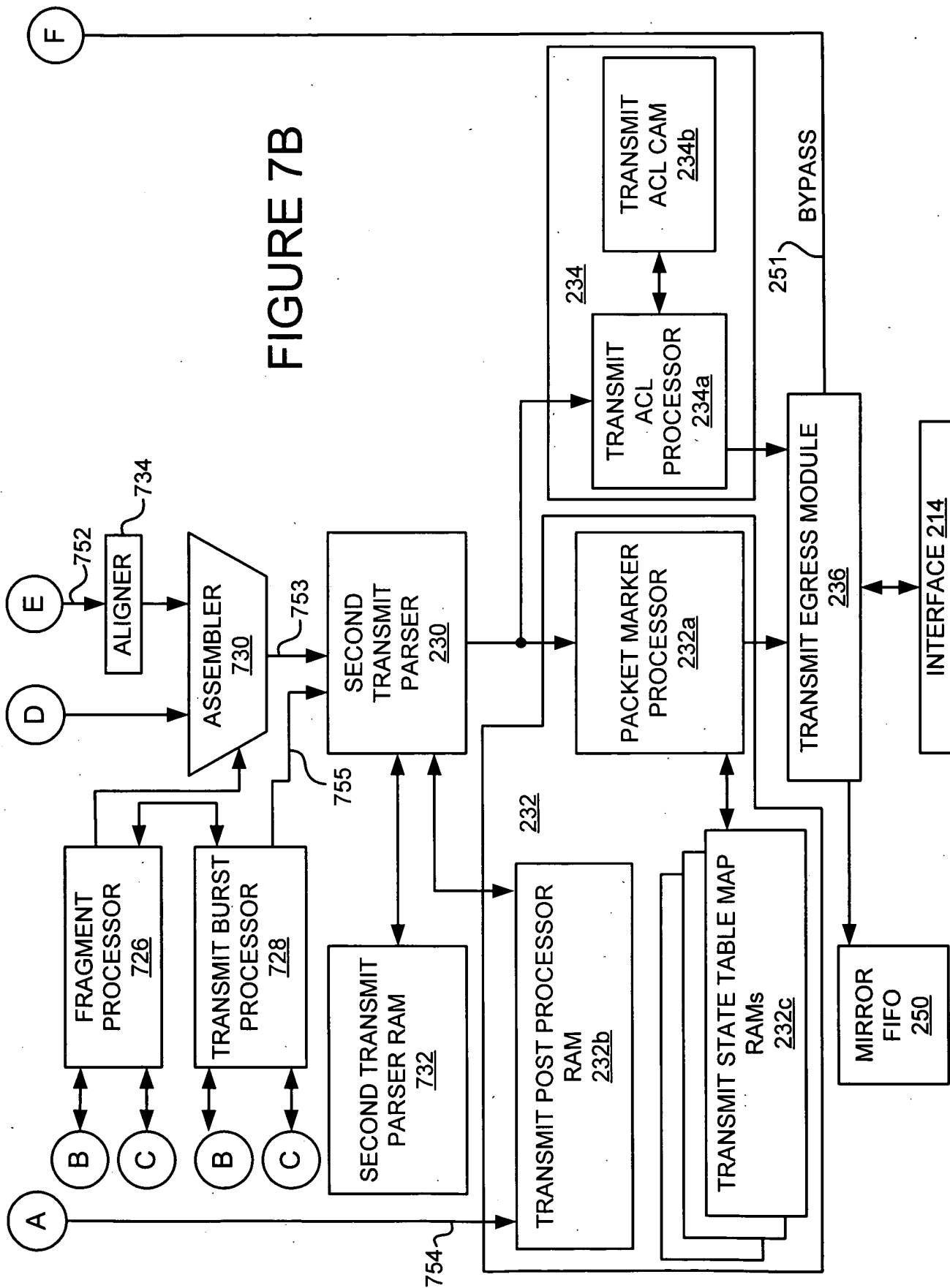
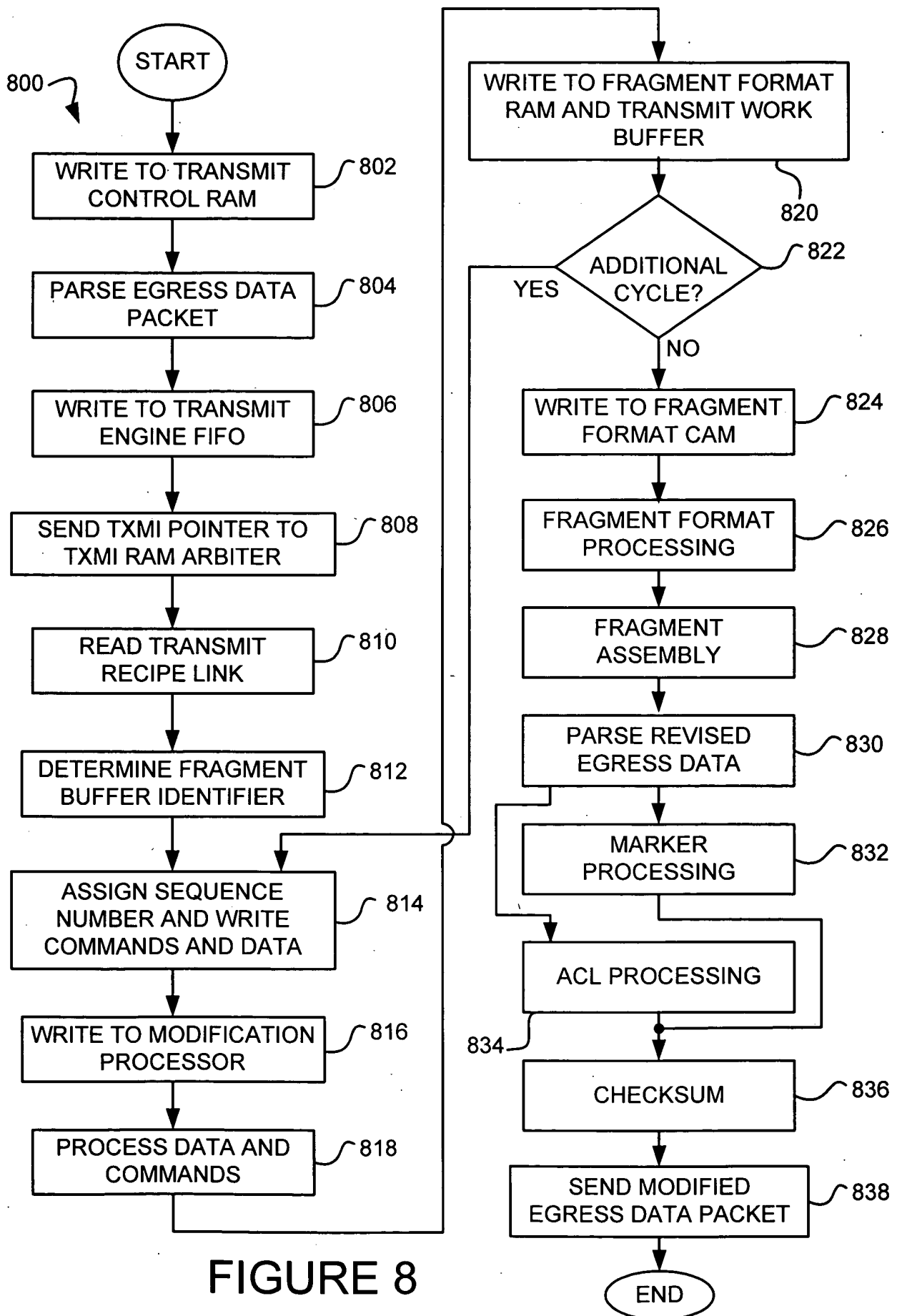


FIGURE 7B



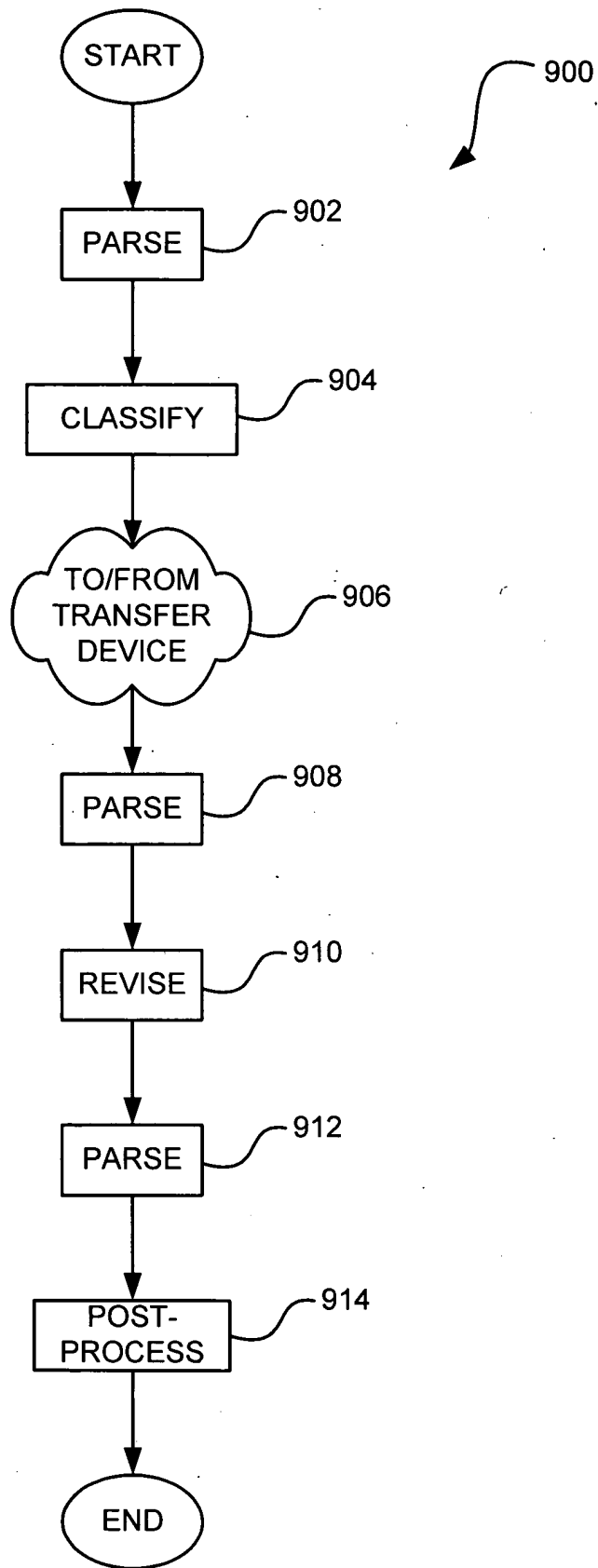


FIGURE 9

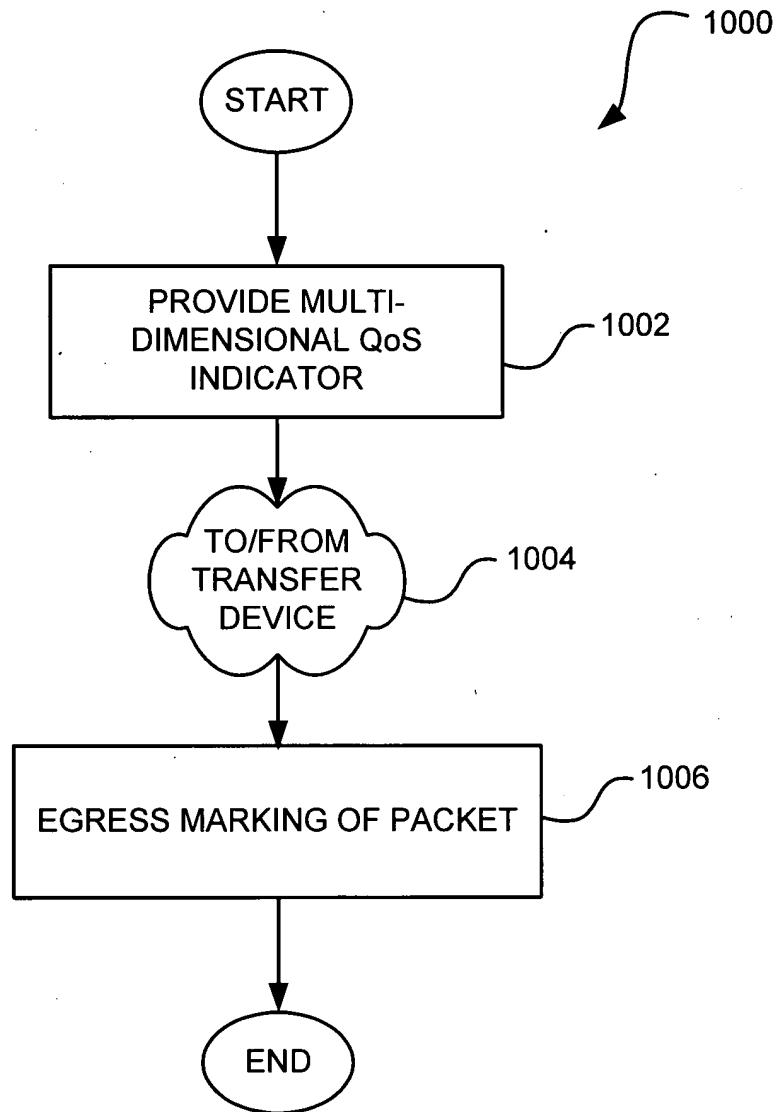


FIGURE 10

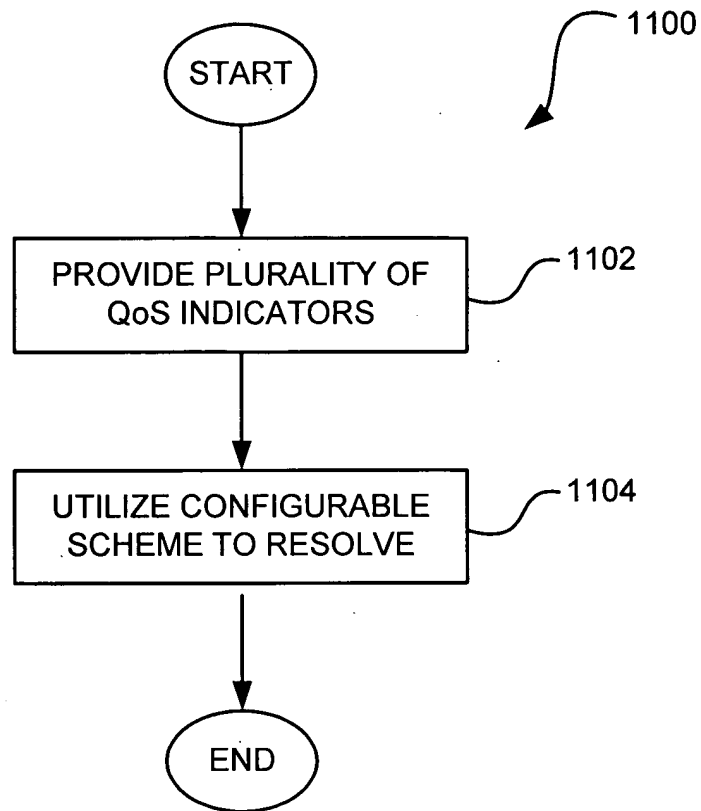


FIGURE 11

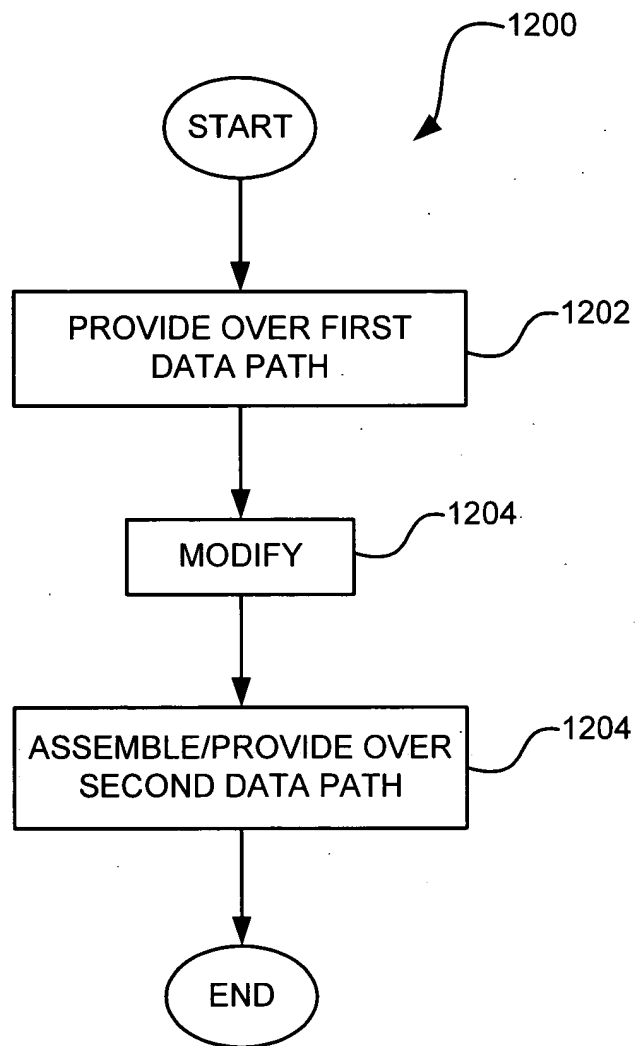


FIGURE 12

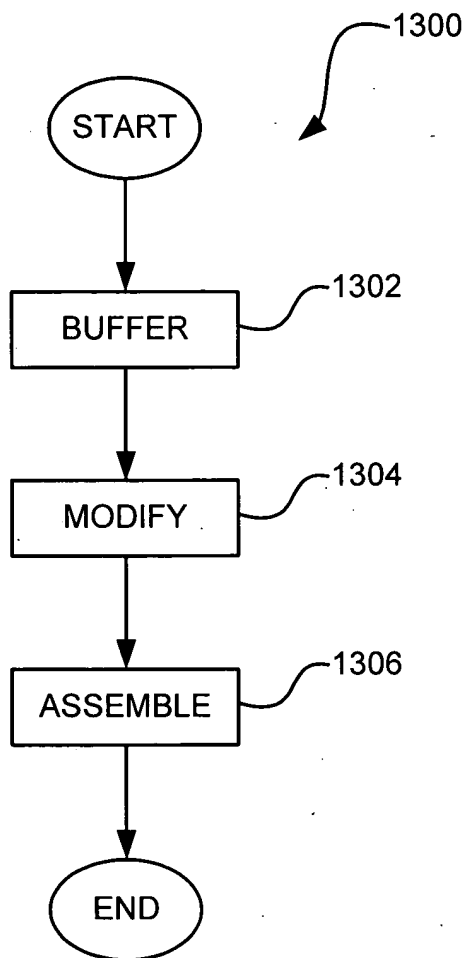


FIGURE 13

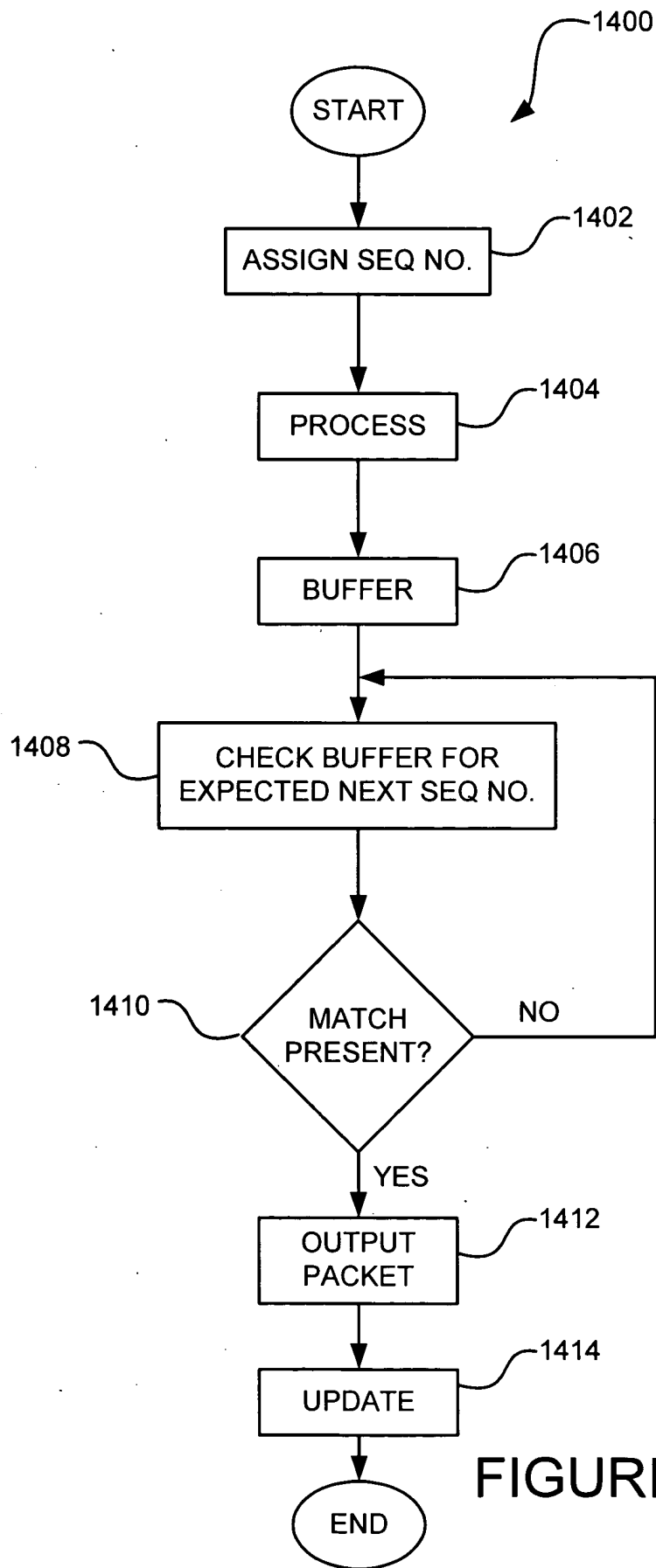


FIGURE 14

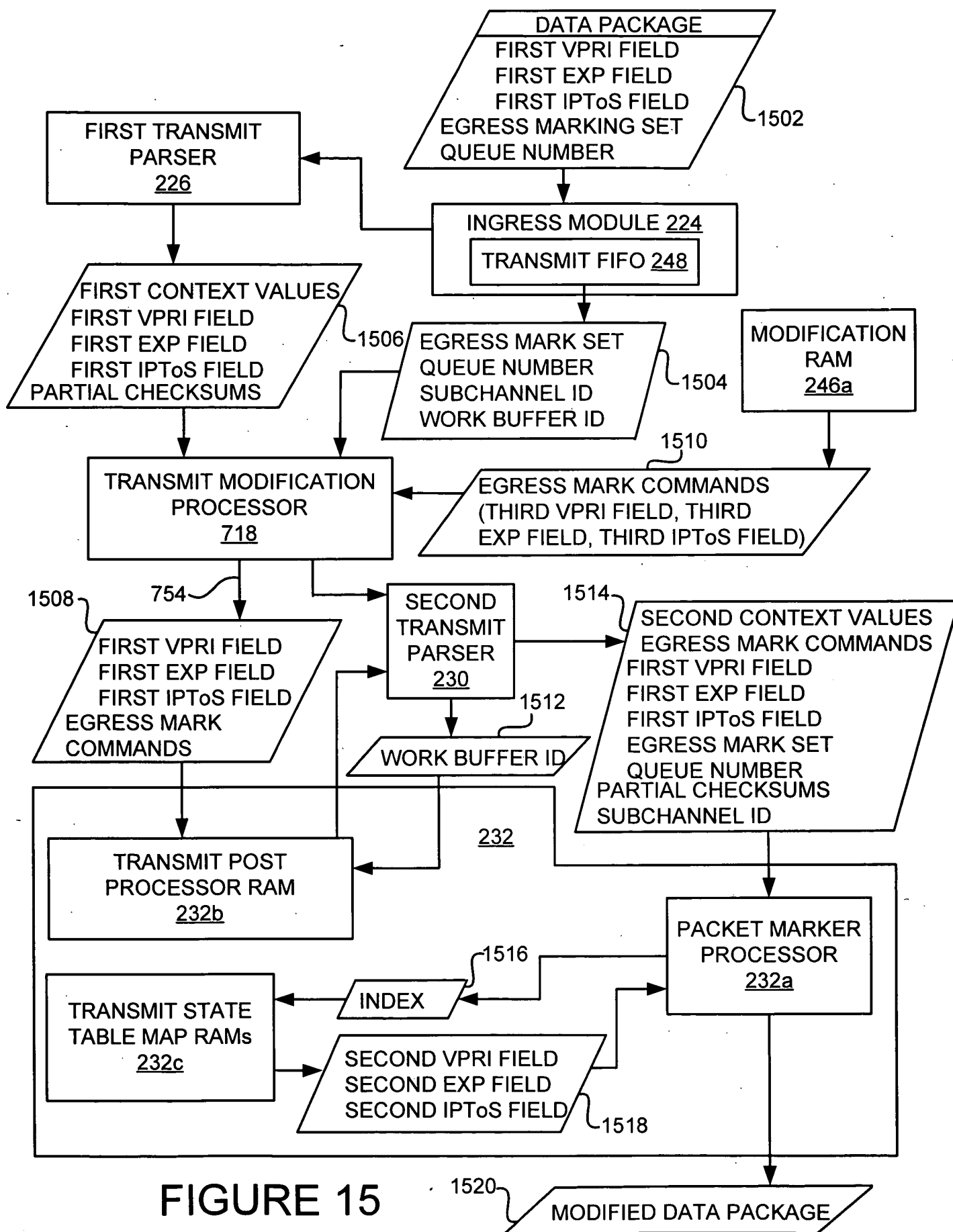


FIGURE 15